

the scope of canadian accomplishment...



For the third consecutive year Canada is in WESCON. This brochure describes the components, sub-systems, instruments, production and support equipment manufactured by the nine Canadian companies exhibiting in Stand 1850 on the Sports Arena floor, They will each send management and technical sales personnel to demonstrate and explain their hardware-and to do business. Most of these companies are already proven vendors to American military and aerospace programs-others are concentrating on expanding their sales in the United States.

We invite you to visit the Canadian Exhibit. But you are not being invited to an institutional exhibit. Trade Commissioners from my office will be on hand to put their knowledge of the Canadian electronics industry at your disposal. Naturally, our Exhibit cannot encompass the entire achievement of the more than 125 companies in the aerospace and electronics field in Canada but we will locate those who can supply the quality products you require.

Frank B. Clark

Frank B. Clark Consul and Senior Trade Commissioner Canadian Consulate General 510 West Sixth Street Los Angeles, California, 90014 Tel: MAdison 2-2233 (Area Code 213)

Government Publications

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AT THE WESTERN ELECTRONIC SHOW AND CONVENTION

INTERNATIONAL SECTION, LOS ANGELES MEMORIAL ARENA,

LOS ANGELES, AUGUST 23-26, 1966



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## QUALITY UNSURPASSED

Industrial and scientific progress in Canada over the past three decades has been phenomenal. From an economy based largely on agriculture and the extraction of raw materials Canada has progressed rapidly to first-echelon rank among industrialized nations. Canadian electronics is notable among the industries which have nourished this development.

During World War II, Canada clearly demonstrated wide and sophisticated capabilities in the production of an extensive range of high quality electronic equipment to stringent military specifications. In the years since, Canadian scientists and engineers have continued to win international acclaim for their many specialized achievements both in basic research and product development.

The capabilities of the Canadian electronics industry are evident in every area of the art from radio astronomy and electron microscopy to communications and micro-miniaturization. Today, Canadian scientists and astro-physicists are using one of the most modern radio astronomy observatories in the world in their investigations into ionospheric radio interference, a field of research in which they are acknowledged leaders. In pursuit of their studies they are working with a 150-foot alt-azimuth mounted paraboloid, which will be precisely guided in celestial co-ordinates. This radio telescope, located at Lake Traverse in eastern Ontario, with its horizon-to-horizon coverage and intended upper frequency limit of approximately 15,800 mcs, will permit high-resolution studies to be made of a vast number of emitting regions of the sky.



In fields of wider application, Canadian electronics enterprise has produced one of the most widely used airborne navigation systems in the world—PHI (Position Homing Indicator). This system has been adopted by NATO forces and is now used in first-line aircraft.

The skills and knowledge of the Canadian electronics industry have produced a microwave communications network which is the most extensive in the world. Linking a relatively small population scattered across enormous distances, this 10,000-mile system spans the continent from Newfoundland to British Columbia with branches stretching far into the remote northern regions.

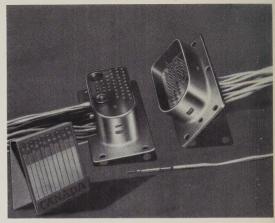
In a land extending some 4,000 miles from the Atlantic to the Pacific with wide variations in climate and terrain, Canada's scientists and engineers have developed electronic equipment to meet an extensive range of operating conditions. This broad experience has resulted in the sales of Canadian-made electronic products to more than 70 countries. The industry has a work force of 65,000 in more than 125 plants, with a factory output valued at \$650,000,000 a year.

This brochure describes the quality and precision of electronic equipment and components displayed by the firms participating in the Canadian Exhibit. Further information may be obtained at the Exhibit from company representatives or officials of the Canadian Department of Trade and Commerce.



### AMPHENOL CANADA LIMITED

44 Metropolitan Road Scarborough (Toronto) Ontario, Canada Tel: 291-1695 (Area Code 416)



A newly-designed filter pin highlights the Amphenol Canada exhibit. The new pin was designed for use in airborne communications equipment, digital computers, research and operational missiles and conventional applications.

## filter-pin, connectors

A new development in space saving and greatly improved RFI filtering has been produced by Amphenol Canada Limited.

This state of the art pi-filtering technique is achieved by combining the ferrite ceramic filter with a replaceable contact to form a filter-pin connector. This method enables filtering within the confines of a miniature connector, thus requiring zero space (e.g. 30-pin filter connector mated in less than ½ cubic inch) for maximum attenuation of electro-magnetic induction in the 50 to 10,000 mc range.

The Amphenol filter-pin has another important feature—it prevents degradation of attenuation or isolation when contacts are inserted in groups in connectors, or after severe electrical, temperature and environmental stress. It also eliminates resonant inductance.

Used in airborne communications equipment, this device greatly reduces ignition noise and other barriers to intelligent and accurate telecommunications. In digital computers, it reduces errors arising from RFI misinterpretations. Similarly, in research and operational missiles, it overcomes problems arising from RFI-induced errors in telemetered commands and messages to and from the ground station—which often result in failure or abortion of the firing.

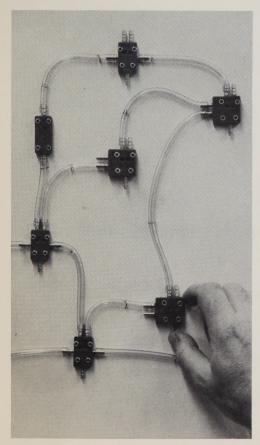
Amphenol Canada is also displaying its 225 and 143 series of printed circuit connectors each of which has a wide range of applications. The 225 series is designed for applications where anticipated printed circuit board insertions and withdrawals will exceed 500 cycles; for 500 cycles and below, the 143 series is recommended.

Amphenol Canada Limited, established in Toronto for over 12 years, has 29 overseas sales offices and representatives, and 24 in the United States.

### **AVIATION ELECTRIC LIMITED**

200 Laurentian Boulevard Montreal 9, Quebec, Canada Tel: 744-2811 (Area Code 514)

### fluidics, guidance systems, navigation systems



These three fluid elements developed by Aviation Electric are interconnected with typical circuitry. All elements, the bistable and monostable fluid amplifiers and the fluid state diode, incorporate the vented vortex concept which eliminates interconnection problems.

A major breakthrough in fluidics, the result of an aggressive research and development program, highlights recent progress by Aviation Electric Limited which will have three new fluidic logic elements on display. By using a unique vortex venting technique the new elements eliminate the impedance matching problems normally associated with the interconnection of fluidic devices.

The first Canadian company to undertake extensive work in this field, Aviation Electric is now marketing monostable and bistable amplifiers and a fluid state diode.

The monostable and bistable logic elements operate in the 1-15 psig input pressure range. They can withstand variations in output leg loading from fully open to completely blocked without false switching or change in operating characteristics. They also allow reverse flows in the inactive leg without "loss of memory".

Pressure recovery ratio in the fully blocked condition is in excess of 40 per cent and the flow recovery ratio in the wide-open condition is about 110 per cent (more than 100 per cent because the fluid is entrained by the vortex venting action). Switching time is approximately .0004 second while switching pressure is less than 15 per cent of the power jet pressure.

The fluidic diode has a reverse flow ratio of less than 4 per cent. It has particular application as an insert in the connecting lines of existing fluidic systems to overcome troublesome load matching problems.

These unique devices have been exhaustively tested and several control systems for industrial applications have been designed and breadboarded using the bistable and monostable elements.

A general purpose Fluidic Sequence Controller is an example of industrially-oriented applications now being investigated. This controller will actuate a number of separate pneumatic cylinders in a timed sequence. The cost is about two-thirds that of conventional electronic or pneumatic control equipment.

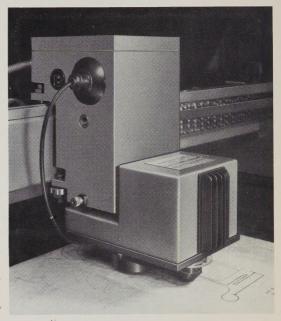
An opti-electronic guidance control system has been produced by AEL for the Martlet IV space vehicle used in the Canadian High Altitude Research Project (HARP) and testing has been carried out on a fluidic pitch and yaw control for missiles.

The company's surface navigation system has been adopted by the armed forces of Britain and Canada and is undergoing extensive evaluation tests in other NATO nations.



# CANADIAN WESTINGHOUSE COMPANY LIMITED

Electronics Division Hamilton, Ontario, Canada Tel : 528-8811 (Area Code 416) Linatrol electronic line tracer attachments by Canadian Westinghouse are readily adaptable for small flame-cutting machines. The Linatrol HL-61 is compact, weighs just under 12 pounds and offers cost-cutting benefits.



electronic line tracer

Canadian Westinghouse Company Limited supplies electrical and electronic equipment to more than 40 countries, and is one of the largest manufacturers in its field in Canada.

Achievements of its Electronics Division are typical of the leadership in original and advanced design now coming from an extremely sophisticated Canadian electronics industry which has emerged from Canada's farranging contributions to North American defense and space programs.

One notable development is an electronic line tracer which has wide application in the metal working industries. Known as the Linatrol Tracing System this equipment can control machines used in flame and plasma-arc cutting, milling, routing, sewing and welding.

The Linatrol tracer operates automatically by following a simple line drawing thus avoiding the use of costly templates, manual tracing and programming. Human error is completely eliminated.

On display is the Linatrol HL-61, a line tracing attachment for small flame-cutting machines. These tracers are marketed in the United States under the name of Aircotron Model CW1.

The unit features modular construction and can be secured to a machine in minutes without the use of tools. Weighing just under 12 pounds, the tracer is approximately 7.5 inches high, 7 inches wide and 11.5 inches deep. It has both manual and automatic steering and kerf offset to compensate for the width of cut.

Nominal line width of the pattern to be traced is .03 of an inch and tolerance on line width is .01 of an inch. Minimum distance between lines on drawing is one eighth of an inch. The tracer operates on 220 volts at 50 or 60 cycles, and power consumption is 25 watts maximum.

# THE DE HAVILLAND AIRCRAFT OF CANADA, LIMITED

Special Products and Applied Research Division Malton, Ontario, Canada Tel: 676-3246 (Area Code 416) sounding antennas, power inverters, instrumentation camera

A revolutionary concept for extendible and retractable antennas, the Storable Tubular Extendible Member (STEM) has recently been developed by the Special Products and Applied Research (SPAR) Division of The de Havilland Aircraft of Canada, Limited.

Proven on Canada's first satellite, Alouette I, STEM was initially designed for space use as either an antenna or an instrumentation boom but it can also be used as a ground antenna or mechanical boom. The unique feature of the signal pickup, is the use of an ultra-thin heat-treated metal tape which assumes a tubular shape as it rolls off a motor-driven drum and during retraction re-assumes tape form for compact storage. The strength and rigidity of the extended tube can be increased by insertion within it of additional tubes.

A variety of STEM masts and antennas is available including a vehicular mast and a lightweight transportable mast, jack-in-the-box, and aerospace high frequency whip antennas.

The de Havilland Aircraft of Canada, Limited has been designing and manufacturing antennas for space and ground communications systems since 1960. It also produces standard and special design electronic equipment for military and industrial use in Canada, the United States, SEATO and NATO countries.

Also being displayed are the company's solid state electrical power inverters. The SV21 static inverter provides ac power for a vehicle-mounted land navigation system. Although normally rated at 125 va, it may also be operated at 150 va and is protected against overloads and short circuits. This unit is housed in a pressurized, cast aluminum waterproof case designed for rough field use and can be operated under water and over a wide range of input voltages.

Another SPAR specialty is the Type 232 Mark 7 instrumentation camera for aerial photography, radar and oscilloscope recording and record plotting. This camera is designed for automatic recording on 35 mm film over a wide range of exposure and interval times.



The SV21 static inverter was designed and developed by The de Havilland Aircraft of Canada, Limited to provide ac power for a vehicle-mounted land navigation system. Ruggedly constructed and continuously rated, the unit provides regulated 26-v, 3-phase 400 cps power from a nominal 24-v dc input.



# FERRANTI-PACKARD ELECTRIC LIMITED

Electronics Division Industry Street Toronto 15, Ontario, Canada Tel: 762-3661 (Area Code 416)

Represented by: Roland Olander & Company, 6313 Santa Monica Blvd., Los Angeles, California

tape reader-spooler, display systems

A highly respected name in the electrical industry for 72 years, Ferranti-Packard Electric Limited maintains some of the most advanced and complete research facilities in Canada.

With a long-established reputation for progressive leadership through research and development, the company produces a wide range of electrical and electronic products of sophisticated design and high quality for commercial, industrial and military applications.

Ferranti-Packard features high-speed tape reader-spoolers in its exhibit. The latest model, the type 4002-4003, has a variety of uses. It is available for input-to-digital computers, as a numerical control for machine tools, and for automatic testing and checkout equipment, automatic message transmission and industrial process control.

The free-run speed of the machine is 1,000 characters per second bi-directionally. An advanced disc-drive capstan allows the reader to stop before the next character at this speed while asynchronous stop-start operation is available at speeds up to 500 characters per second.

The disc-drive capstan and single pinch rollers also ensure complete accuracy on all thicknesses of punched tape since no adjustments are necessary when tape thicknesses are changed. Solid state control circuits and signal amplifiers in the 4002-4003 reader are mounted on printed circuit cards located at the rear of the unit, readily accessible for test purposes. The photo-electric sense system uses nine reliable silicon solar cells and a regulated exciter lamp operating on a reduced voltage. Complete visibility of the tape is maintained for inspection or marking at the read station.

The latest design of a unique information display system using the 4002/3 reader-spooler as the drive medium is being displayed.



The Electronics Division of Ferranti-Packard is featuring a new high-speed tape reader/spooler. This machine is used as an input device for general-purpose digital computers and business machines.

### PRECISION ELECTRONIC COMPONENTS LTD.

19 Hafis Road, Toronto 15, Ontario, Canada, Tel: 241-4491 (Area Code 416)

Represented by:

Precision Electronic Components 14233 Detroit Avenue Cleveland, Ohio 44107 Tel: 521-3570 (Area Code 216) (U.S. Sales Office)

Wm. J. Anderson Assoc. P.O. Box 45768 Los Angeles, Calif. 90045 Tel: 670-7949 (Area Code 213) (for Southern California)

After many years of experience in manufacturing RV4 and RV6 MIL-style potentiometers, Precision Electronic Components Ltd. has now applied its unique integrated hot molding technique to trimmer pots. This new series of hot molded trimmers, will also be available with a special metal ceramic resistor base with a very low temperature co-efficient.

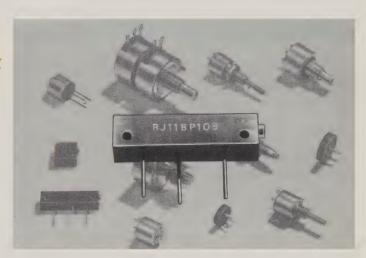
All PEC variable resistors have built-in broad spectrum reliability. This means selection of raw materials under carefully controlled conditions; simplified design, eliminating unnecessary parts; and continuous application of combined climatic, physical and electrical stresses, in addition to the standard rotational load life tests.

A whole range of "beyond-MIL-specified" tests is performed on a daily basis. These include: immersion in hot water, fixed current noise, rotational "audio" noise, output smoothness and contact resistance variation tests.

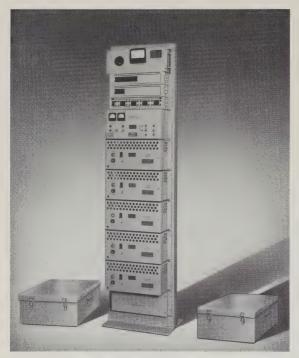
PEC variable resistors are approved to the applicable MIL specifications. The company's quality control system is approved to IS (T) 101B and MIL-Q-9858 specifications and its approved testing laboratory has a complete range of the newest testing equipment.

The company has long been an established source of variable composition resistors for many of the major military and industrial electronic manufacturers. New plant facilities, recently acquired, give available space four times that of the previous plant. With added equipment and streamlined procedures, production capabilities are doubled.

variable composition resistors, trimmer pots



Precision Electronic Components' unique integrated hot-molding technique has now been applied to trimmer pots. Shown is the first in a series of trimmers now available with hot-molded composition or metal-ceramic resistance elements. The same process is applied to all PEC variable resistors.



This Pylon Electronic static ac generator is used by Manitoba Hydro on high voltage lines between Grand Rapids and Brandon, Manitoba. Shown on either side of the generator are the specially constructed aluminum transit cases from Pylon.



ELECTRONIC
DEVELOPMENT
company, ltd.

139 Clement Street Lasalle, Quebec, Canada Tel: 366-8901 (Area Code 514)

## attenuators, generators, control and alarm panels

Specialists in the design, development and manufacture of solid state power and communications equipment, Pylon Electronic Development company, ltd. has made significant advances in the use of transistors and semiconductors for power conversion.

Incorporated in 1955, Pylon has pioneered in a number of power devices. Outstanding achievements include the first commercial transistor ringing generator and the first transistor power equipment for 48v dc and 130v dc inputs. The company was also first to produce static power generators with sine wave output and dc to dc power conversion without rectifiers. These off-the-shelf products have a history of proven performance and reliability in Canadian and export markets.

The manufacture of aluminum transit cases for the safe transport of delicate electronic, photographic and scientific equipment is another Pylon specialty. Designed and built to precise engineering specifications, these cases can be made to hold equipment of almost any shape. They are internally padded to ensure maximum protection from shock, vibration and other shipping and handling hazards.

Pylon also custom builds equipment. As part of this special products operation, Pylon offers a collaborative engineering service to tailor the equipment or system to the precise requirements of each customer.

A competent staff of engineers and technicians works in two well-equipped laboratories. One is maintained for production and quality control, the other for engineering and development.

### RESEARCH INDUSTRIES LIMITED

2971 Lake City Way, Lake City Industrial Park Burnaby 2, British Columbia, Canada, Tel: 299-6268 (Area Code 604)

## battery chargers, transators

An extensive range of components for communications systems is designed and manufactured by Research Industries Limited.

A new regulated battery charger is featured in the RIL exhibit. This reliable static unit can be used as a floating charger at telephone company community dial office and repeater sites, power utility stations and for communication batteries. Two or more rectifiers may be connected in parallel to increase system capacity or to provide standby facilities.

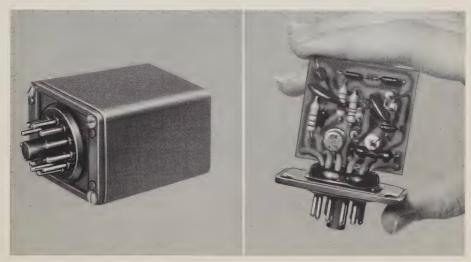
A single-phase 48v dc unit, the RIL charger covers the 6-60 amp range. Design features include a transistor magnetic amplifier with silicon rectifiers and zener diode reference to give excellent reliability and overload capability.

Auxiliary equipment such as counter EMF cells, automatic counter cell switching units, meter, fuse and circuitbreaker panels, charge and ground bar panels are available either individually or completely assembled in relay racks to form the complete power bay.

A transator that is a static dc to ac inverter is also being exhibited. It is used to convert dc power to 60-cycle ac power where basic ac supply is not available, or where interruptions and transfers are problems. Alternatively, it may be used as a standby system for service when the normal ac system fails.

The circuit consists of four transistors, or multiples of four transistors, with pairs of transistors grouped in series and in parallel to suit the input voltage and total power requirements. Standard models operate off 48v and 130v batteries; special variations can be produced for 24v or other special voltages.

Power equipment for communications displayed by Research Industries Limited includes dc to dc converters, dc to ac inverters, battery chargers, ac and dc voltage sensitive switches and dc meter relay replacements.



This highly reliable dc voltage sensitive switch from Research Industries Limited operates from a reference supply current of 16 ma at from 24 to 130 volts dc. It will drive a relay, lamp or solid state control circuit in industrial or utility installations.

#### WELWYN CANADA LIMITED

1255 Brydges Street, London, Ontario, Canada Tel: 451-9490 (Area Code 519)

Represented by:

Web Electronics Associates P.O. Box 45734 Los Angeles, California 90045 Tel: 671-8297 (Area Code 213) John Hatfield Welwyn International Inc. 811 Sharon Drive Westlake, Ohio 44901 Tel: 871-7980 (Area Code 216)



At the London, Ontario plant of Welwyn Canada Limited, this automated assembly machine performs all final operations on resistors, including color banding, final measure, sorting, top coating, inspection and curing.

## resistors, attenuator pads, integrated circuits

Miniature molded metal oxide resistors, manufactured by Welwyn Canada Limited are designed specifically for computers, instruments and communications equipment. They are ideal replacements for carbon composition types at virtually the same cost and can replace precision types with savings in cost and space.

Designed to meet MIL-R-22684B specifications, these resistors are molded to withstand maximum dielectric breakdown properties and feature consistency in size and precise color band identification.

In development of a tin oxide resistor, Welwyn has achieved a stable, rugged, conducting film providing reliability with a minimum dependence on the enclosure used. As a result, the molded enclosure gives additional mechanical ruggedness, electrical insulation and consistency in size to facilitate handling by automatic insertion equipment.

A new product by Welwyn is an ultra low-value resistor produced by an exclusive process in which a passive conductive metal film is diffused in a new arrangement of materials on the surface of a special ceramic substrate.

A leading producer of resistors of all types, shapes and finishes, Welwyn Canada is a long-established supplier to United States firms. Facilities of a manufacturing plant opened by the company at Westlake, Ohio in 1963 for the manufacture of insulated power oxide resistors will shortly be enlarged for the production of other types. With 12 regional offices in the United States staffed by qualified sales engineers, Welwyn Canada gives fast service on all orders.

The company is displaying a comprehensive range of resistors, attenuator pads and thin film circuits.

#### INFORMATION

Officials of the Canadian Department of Trade and Commerce and representatives of participating companies at the 1966 Western Electronic Show and Convention in Los Angeles will answer inquiries from interested businessmen. Information about products and services available from Canada may be obtained at any time from the following Canadian trade offices.

#### LOS ANGELES

Consul and Senior Trade Commissioner Canadian Consulate General 510 West Sixth Street Los Angeles, California 90014 Tel: MAdison 2-2233 (Area Code 213)

#### BOSTON

Consul and Senior Trade Commissioner Canadian Consulate General 607 Boylston Street Boston, Massachusetts 02116 Tel: 262-3760 (Area Code 617)

#### CHICAGO

Consul and Senior Trade Commissioner Canadian Consulate General 310 South Michigan Avenue Suite 2000 Chicago, Illinois 60604 Tel: 427-7926 (Area Code 312)

#### CLEVELAND

Consul and Senior Trade Commissioner Canadian Consulate Illuminating Building 55 Public Square Cleveland, Ohio 44113 Tel: 861-1660 (Area Code 216)

#### DETROIT

Consul and Trade Commissioner Canadian Consulate 1139 Penobscot Building Detroit, Michigan 48226 Tel: WOodward 5-2811 (Area Code 313)

#### **NEW ORLEANS**

Consul and Trade Commissioner Canadian Consulate General 225 Baronne Street Suite 1710 New Orleans, Louisiana 70112 Tel: JAckson 5-2136 (Area Code 504)

#### **NEW YORK**

Deputy Consul General (Commercial) Canadian Consulate General 680 Fifth Avenue New York City, N.Y. 10019 Tel: JUdson 6-2400 (Area Code 212)

#### **PHILADELPHIA**

Consul and Trade Commissioner Canadian Consulate 3 Penn Center Plaza Philadelphia, Pennsylvania 19102 Tel: LOcust 3-5838 (Area Code 215)

#### SAN FRANCISCO

Consul General Canadian Consulate General 333 Montgomery Street San Francisco, California 94104 Tel: YUkon 1-2670 (Area Code 415)

#### SEATTLE

Consul General
Canadian Consulate General
1308 Tower Building
Seventh Avenue at Olive Way
Seattle, Washington 98101
Tel: MUtual 2-3515 (Area Code 206)

#### WASHINGTON

Commercial Counsellor Canadian Embassy 1746 Massachusetts Avenue, N.W. Washington, D.C. 20036 Tel: DEcatur 2-1011 (Area Code 202)

#### **MEXICO**

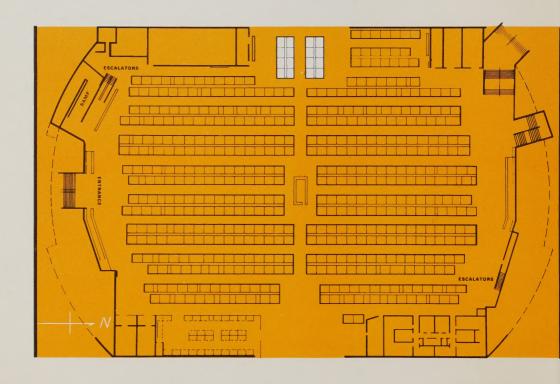
Commercial Counsellor Canadian Embassy Apartado Postal 5-364 Melchor Ocampo 463, 7th Floor Mexico 5, D.F. Tel: 33-14-00

# CANADA

AT THE WESTERN ELECTRONIC SHOW AND CONVENTION STAND 1838-1853 INTERNATIONAL SECTION, LOS ANGELES MEMORIAL ARENA, LOS ANGELES, AUGUST 23-26, 1966

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#### VISIT 70 NATIONS ON ONE SITE



The Expo 67 story will go out over world television and radio networks from this world broadcasting center. It is being built at the Expo site by the Canadian Broadcasting Corporation, and will incorporate the latest Canadian electronics advances in the communications field.

Canada next year presents a unique business opportunity—the chance to meet business leaders from 70 nations on one site. The opportunity comes at Canada's EXPO 67, next year's only official world exposition, to be held in Montreal April 28 to October 27.

To assist visiting businessmen, a Business Development Bureau has been established. This Bureau will arrange introductions to the people you want to meet. And if an industrial tour of Canada interests you the Bureau will make all the necessary arrangements including appointments with government officials and leaders of industry.

Visitors from the electronics industry will want to see the unique advances made in Canada in the Man and Communications exhibit—just one of the many imaginative displays united in the overall theme of EXPO 67, Man and His World.

An International Trade Center will also serve visiting businessmen. Here private conference rooms and complete stenographic, translation and communication services will be at your service.

Officials of the Canadian Department of Trade and Commerce and trade departments of several Canadian provinces will also have offices at the Center to facilitate arrangements for business visitors.

All in all, here is an unparalleled opportunity to make business contacts in 70 nations. And you can do it all on one site.

The Canadian trade office nearest you will gladly assist you in making arrangements for your visit. But book early—reservations are already being made in large numbers.



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